

DEPARTMENT OF LAND AND NATURAL RESOURCES
Earthquake Damage Daily Report
Date: 12/5/06

| Control # | Island | District | Facility Description | Project Description | County | Category | Other Comments | Latest Action Taken |
|-----------|--------|--------------|-------------------------------------|--|--------|----------|----------------|--|
| 01 | Hawaii | North Kona | Recreational Facility (pier) | Kailua-Kona Pier - Structural assessment, design, and construction to repair earthquake damage to facility. | Hawaii | B | | Assessment/Report/Estimate completed. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html Project in design phase. See item #41 for design costs and actions. |
| 02 | Hawaii | South Kohala | Recreational Facility (pier) | North Kawaihae SBH - Structural assessment of facilities, design, and construction to repair earthquake damage to facility. | Hawaii | B | | Assessment/Report/Estimate completed. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html . |
| 03 | Hawaii | South Kohala | Recreational Facility (pier) | Has been combined with #02 | Hawaii | | | |
| 04 | Hawaii | South Kona | Safety Zone | Buoys and moorings at Kealahou Bay, in conjunction with State Parks rock fall assessment and safety measures | Hawaii | B | | DOBOR to borrow temporary buoys from the Iron Man. Coast Guard approval of buoys. Placement occurred 11/3/06. Adjustments made 11/6/06. Map of buoy locations has been generated and is attached at end of report. |
| 05 | Hawaii | Various | Various | Inspection of facilities, infrastructure, trails and lands for damages, public safety, signage and posting. | Hawaii | B | | Initial Assessment completed. Initiated short term repairs as staff and funding permitted. Long-term repairs waiting pending additional funds. |
| 06 | Hawaii | North Kona | Recreational Facility (building) | Facilities Repair - Pu'u Wa'awa'a Cabin Damage - Repair of broken pipes. | Hawaii | E | | Repair completed 10/20/2006. |
| 07 | Hawaii | North Kona | Recreational Facility (building) | Facilities Repair - Honuauia Cabin water tank removal, Demolish water tank and dispose of debris. | Hawaii | E | | Repair pending availability of field crew. |
| 08 | Hawaii | North Kohala | Recreational Facility (parking lot) | Pololu Parking Lot - level and repave parking lot, rebuild retaining wall. | Hawaii | G | | HDOT has FINISHED road, parking lot-lookout repairs. HDOT to open road and parking lot on Friday 11/3/06. Need emergency funding to repair trail. Anticipate over 100 cars/weekend day visitation and estimated 50% use trail when open. Site visit with FEMA November 29, 2006. |
| 09 | Hawaii | North Kohala | Recreational Facility (trail) | Pololu Trail - reroute trail, remove debris and scale slopes above trail. | Hawaii | G | | Pololu Trail opened as of 11/22/06. |
| 10 | Hawaii | North Kohala | Recreational Facility (trail) | Kohala Ditch Trail - clearing landslide, restore trail grade and replace 3 bridges. | Hawaii | G | | Closed to public - waiting for additional funding for repairs. |
| 11 | Hawaii | North Kohala | Recreational Facility (trail) | Alakahakai Trail - reroute trail, signage, and monitor. | Hawaii | G | | Closed to public - waiting for landslide to stabilize to remove debris and reroute. |
| 12 | Hawaii | North Kohala | Recreational Facility (trail) | Kapaloa Falls Trail - clearing landslide debris, restore trail grade, signage and scale area above trail and replace bridge. | Hawaii | G | | Closed to public - waiting for additional funding for repairs. |
| 13 | Hawaii | Hamakua | Recreational Facility (trail/road) | Mauna Kea Hunting Road - clearing landslide debris from roadway. | Hawaii | C | | Clearing is complete and area open to public. |
| 14 | Hawaii | North Kohala | Recreational Facility (trail) | White Road Trail - clearing landslide debris, restore trail grade, scale slide area and replace signage. | Hawaii | G | | Closed to public - waiting for additional funding for repairs. |
| 15 | Hawaii | North Kona | Drainage | Honuauia Forest Reserve - clearing collapsed Rockwall debris from boundary and restoring drainage. | Hawaii | A | | Waiting for availability of equipment. |
| 16 | Hawaii | North Kona | Reservoir | Waikoloa Reservoir 1&2. Staff responded to provide assistance to command post for draining reservoirs. | Hawaii | B | | No further action required at this time. |
| 17 | Hawaii | North Kohala | Recreational Facility (trail) | Muliwai Trail - assessment and debris removal and monitor. | Hawaii | G | | closed to public - waiting for landslide to stabilize to remove debris. Inspecting on Nov.22,2006. still closed and needs additional inspection due to sizeable aftershock on Nov. 23, 2006 (Thanksgiving Day). |

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| 18 | Hawaii | North Kohala | FEMA Operations Center | Assist with obtaining use of Waimea Hunter Ed building for FEMA operations center. | Hawaii | G | | No further actions needed at this time. |
| 19 | Hawaii | Hamakua | Stream | Waipio Valley - landslide has partially blocked streams in the Waipio, Pololu and Waimanu Valleys. DOFAW assisting Hawaii County Civil Defense in assessment and possible debris clearing procedures as needed. Site under monitoring by Hawaii County Civil Defense. | Hawaii | B | | DLNR Staff coordinating with Hawaii County Civil Defense to provide assessment and response if conditions warrant. Assessment with SCD shows that area no longer poses a threat of danger. |
| 20 | Hawaii | Hamakua | Recreational Facility (building) | Minor repairs to Keanakolu Cabins. | Hawaii | E | | Carpenter and helper repair pipes and foundation. Will repair tank and toilet pipes later. |
| 21 | Hawaii | Kona | Historic rock wall | Kuakini Wall | Hawaii | G | | Assessing if rebuilding is possible or desirable |
| 22 | Hawaii | Hawaii | Historic & Cultural Sites | Initial assessment with a possible Joint FEMA Civil defense re-assessment required | Hawaii | G | | |
| 23 | Hawaii | South Kona | Kealakekua Bay | Rock fall assessment, signage, safety measures, etc. | Hawaii | G | | Recommend creation of a water safety zone to keep swimmers/boaters away from the rock fall zone. 10/26 DLNR issued an order that creates ocean and land safety zones within Kealakekua Bay that will be closed to the public. The order closes public access to the Pali and Ka'awaloa flat land sections within the Kealakekua Bay State Historical Park, until DLNR determines that the closed ocean waters and land may be safely reopened for public use. Geologists recommend keeping Ka'awaloa Flat closed for 1 month or until the threat of aftershocks has passed. Toured with FEMA on Mon. 11/13/06 |
| 24 | Hawaii | South Kona | Kealakekua Bay | Cliff face restoration | Hawaii | G | | Toured with FEMA on Mon. 11/13/06. Additional visit Nov.29,2006, after the large aftershock on Nov.23, assessment to be done. |
| 25 | Hawaii | South Kona | Kealakekua Bay | Rock Fall mitigation, slope stabilization | Hawaii | G | Need rock fall contractor formal evaluation | Mitigation measure(s) to be determined, cost estimate may be reduced considerably if recommended alternative of doing nothing is adopted. Toured with FEMA on Mon. 11/13/06 |
| 26 | Hawaii | North Kona | Hulihe'e Palace | Historic Site. | Hawaii | G | Palace closed for safety due to lack of structural integrity of the building. | Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html . Toured with FEMA on Mon. 11/13/06 |
| 27 | Hawaii | East Hawaii | Kalopa State Park | Chimney in the dining pavilion has sustained some damage. | Hawaii | G | Dining pavilion services all the cabins at Kalopa. | Evaluation of the damage and quote to repair is pending. |
| 28 | Hawaii | South Kohala | Hapuna Beach Park | Hapuna Beach State Recreation Area. A- Frame Shelter repair, Beach Park comfort station wall, electrical, roof, concession building, and pavilions. | Hawaii | G | Pavilions to be evaluated; evaluation found light damage. | Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html . Site visit with FEMA/SCD 11/21/06. Additional damage discovered is similar to the previous damage reported. |
| 29 | Hawaii | North Kohala | Kamehameha Birth site & Mookini Heiau | Kohala Historical Sites State Monument - Kamehameha Birth site rock wall restoration. | Hawaii | G | Follow historical consultation process. Received consultant report on both Kamehameha Birth site and Mo'okini Heiau. | Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html Site visit with SCD, and FEMA on Wed. Nov. 22. |
| 30 | Hawaii | North Kohala | Lapakahi | Lapakahi State Historical Park - Rock wall restoration. | Hawaii | G | Follow historical consultation process. | A volunteer group has proposed to help. Report available at http://www.hawaii.gov/dlnr/reports/earthquake/index.html . Site visit with FEMA/SCD 11/21/06 |
| 31 | Oahu | Honolulu | Iolani Palace | Historic Structure, Iolani Palace | Honolulu | E | DAGS assisted FEMA in inspecting Iolani Palace, Old Archives, Iolani Barracks, | Cost estimates have been taken from FEMA preliminary damage assessment site estimate. |
| 32 | Kauai | Hanalei | Recreational Facility (trail) | Trail survey. | Kauai | G | | No damage, trail was temporarily closed for survey to ensure public safety for hikers. |

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Control Number - Will be the number used by SCD and FEMA to identify DLNR project # __. New projects (40 +) will follow in order and therefore may not be arranged by county and then division.